TECHNICAL DATA
DATASHEET 5288, Rev -

Diode Array

- ***Devices Are Serialized***
- ***Built And Screened To Space Level Quality***
- ***Space Quality Level Conformance Testing Is Performed On Each Lot***
- ***SDA1002 – internal diodes are 1N6638 (MIL-PRF-19500/578L)***
- ***SDA1003 - internal diodes are 1N6642 (MIL-PRF-19500/578L)***

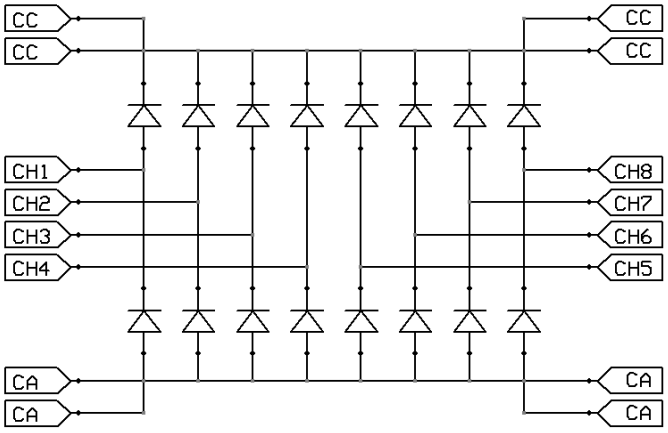
MAX. RATINGS / ELECTRICAL CHARACTERISTICS FOR EACH DIODE
All rating at are T_A = 25^{O}C unless otherwise specified

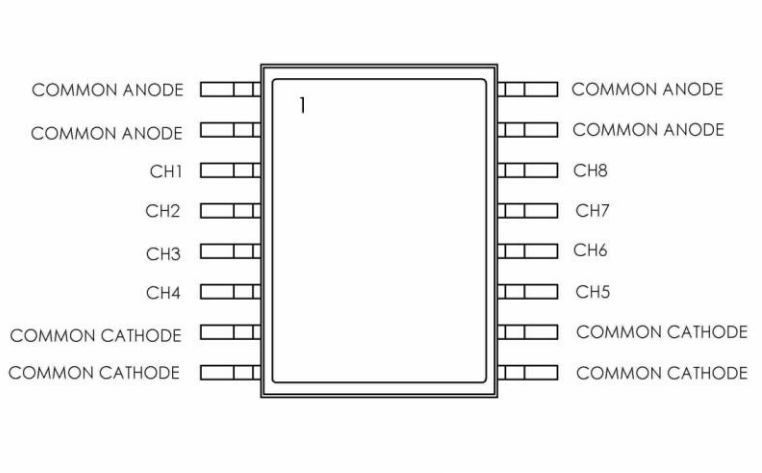
RATING	SYMBOL	MAX	UNIT
Peak Inverse Voltage (DC) SDA1002 SDA1003	PIV	 150 100	V
Average DC Output Current T_A = 55^{o}C T_A = 100^{o}C	I_O	 0.30 0.16	A
Peak Single Cycle Surge Current (Tp=8.3ms single half-Sine wave)	I_{fsm}	2.5	A
Max. Operating Junction Temperature	T_J	-55 to +150	^{o}C
Max. Operating Ambient Temperature	T_{OP}	-30 to 100	^{o}C
Storage Temperature Range	T_{stg}	-65 to +175	^{o}C
Maximum forward voltage SDA1002 @ 200mA SDA1003 @ 100mA	V_f	 1.2 1.3	V
Maximum Instantaneous Reverse Current At Rated (PIV) SDA1002, T_A= 25^{o}C SDA1002, T_A= 100^{o}C SDA1003, T_A= 25^{o}C SDA1003, T_A= 100^{o}C	I_R	 35 500 25 500	μA
Max. Reverse Recovery Time I_F =10mA, I_{RM} = 10mA	t_{rr}	5	ns
Max Capacitance, f= 1MHz, V_{AC}= 50mV V_R = 1.5V	C_T	3	pF
Thermal Resistance Junction to Case	$R\theta_{JC}$	250	^{o}C/W

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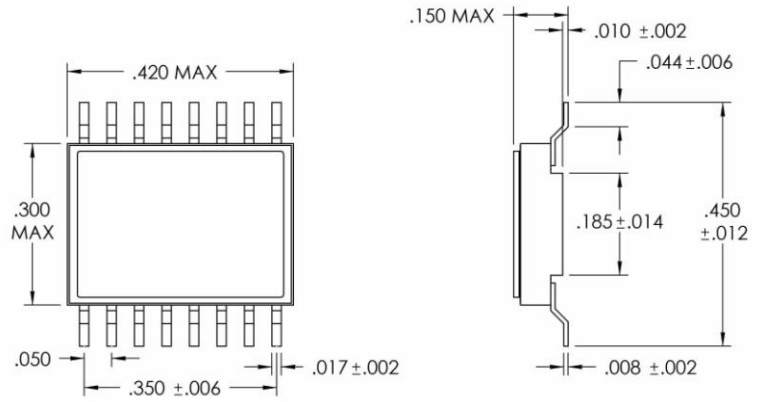
TECHNICAL DATA
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Electrical Schematic





Mechanical Outline



NOTES:
1. TOLERANCE UNLESS OTHERWISE NOTED = ±.005
2. ALL DIMENSIONS PRIOR TO SOLDER DIPPING
3. LID AND ALL FLOATING METAL CONNECTED TO COMMON ANODE

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